IAP7 Rec'd PCT/PTO

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE (REV. 7-2005)

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

INTERNATIONAL APPLICATION NO. KR2004/002467

INTERNATIONAL FILING DATE 24 September 2004

05-479-C

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

1567538

PRIORITY DATE CLAIMED 26 September 2003

| TITLE OF INVENTION | | | | | | | | | |
|--------------------|---|---|--|--|--|--|--|--|--|
| APPA | RAT | TUS AND METHOD FOR DIGITALLY IMPLEMENTING A WIDEBAND MULTICARRIER | | | | | | | |
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| | | T(S) FOR DO/EO/US EONG | | | | | | | |
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| Applic | Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | | | | | | | |
| 1. | \boxtimes | This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. | | | | | | | |
| 2. | | This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. | | | | | | | |
| 3. | | This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below. | | | | | | | |
| 4. | | The US has been elected (Article 31). | | | | | | | |
| 5 . | \boxtimes | A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) | | | | | | | |
| | | a. 🔲 is attached hereto (required only if not communicated by the International Bureau). | | | | | | | |
| | | b. 🗵 has been communicated by the International Bureau. | | | | | | | |
| | | c. \square is not required, as the application was filed in the United States Receiving Office (RO/US). | | | | | | | |
| 6. | | An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). | | | | | | | |
| | | a. is attached hereto. | | | | | | | |
| | | b. has been previously submitted under 35 U.S.C. 154(d)(4). | | | | | | | |
| 7 . | \boxtimes | Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) | | | | | | | |
| | | a. are attached hereto (required only if not communicated by the International Bureau). | | | | | | | |
| i | | b. \square have been communicated by the International Bureau. | | | | | | | |
| | | c. \square have not been made; however, the time limit for making such amendments has NOT expired. | | | | | | | |
| | | d. 🛛 have not been made and will not be made. | | | | | | | |
| 8. | | An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). | | | | | | | |
| 9. | | An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). | | | | | | | |
| 10. | | An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). | | | | | | | |
| 11. | | A copy of the International Preliminary Examination Report (PCT/IPEA/409). | | | | | | | |
| 12. | \boxtimes | A copy of the International Search Report (PCT/ISA/210). | | | | | | | |
| Ite | ms 1 | 3 to 23 below concern document(s) or information included: | | | | | | | |
| 13. | | An Information Disclosure Statement under 37 CFR 1.97 and 1.98. | | | | | | | |
| 14. | | An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. | | | | | | | |
| 15. | | A FIRST preliminary amendment. | | | | | | | |
| 16. | | A SECOND or SUBSEQUENT preliminary amendment. | | | | | | | |
| 17. | | A substitute specification. | | | | | | | |
| 18. | | A power of attorney and/or change of address letter. | | | | | | | |
| 19. | | A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. | | | | | | | |
| 20. | | · | | | | | | | |
| 21. | | A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). | | | | | | | |
| 22. | \boxtimes | Express Mail Label No. EV 757106498 US | | | | | | | |
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IAP20 Rec'd PCT/PTO 07 FEB 2006

PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
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| U.S. APPLICATION NO (if known, see 37 CFR 1.5) | INTERNATIONAL APPLICATION NO. | ATTORNEY'S DOCKET NUMBER |
| U.S. APPLICATION NO (if known, see 37 CFR 1.5) 10/567538 | KR2004/002467 | 05-479-C |

23. Other items or information:

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Published International Application No. WO 2005/032087 Written Opinion from the International Searching Authority Application Data Sheet Postcard and Check

| The followin | g fees have been s | submitted: | | | | | CAL | CULATIONS | PTO USE |
|---|--------------------|--------------|--|-------|------|----------|------------|------------|---------|
| | • | | | | | . \$300 | \$ | \$300.00 | |
| 25. 🗵 Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article \$0 All other situations. \$200 | | | | | | | \$ | \$200.00 | |
| 26. ☑ Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority. \$100 International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB. \$400 All other situations. \$500 | | | | | | \$ | \$400.00 | | |
| | L OF 24, 25 and | | | | | | \$ | \$900.00 | |
| Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Total Sheets Extra Sheets Number of each additional 50 or RATE | | | | | | | | | |
| | | traction t | hereof (round up to a | wnoie | | 250.00 | | 60.00 | |
| 16 - 100 = | 0 /50 = | | 0 | | L | 5250.00 | \$ | \$0.00 | |
| | | | search fee, examinat of the national stage (3 | | | | \$ | \$130.00 | |
| CLAIMS | NUMBER F | ILED | NUMBER EXTRA | | RAT | E | | | - |
| Total claims | 9 | - 20 = | 0 | × | | \$50.00 | \$ | \$0.00 | |
| Independent clair | ms 2 | - 3= | 0 | × | | \$200.00 | \$ | \$0.00 | |
| MULTIPLE DEP | ENDENT CLAIMS | (if applicab | le) | + | | 360.00 | \$ | \$0.00 | |
| | <u></u> | TO | TAL OF ABOVE | CALC | ULAI | IONS = | \$ | \$1,030.00 | |
| Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. | | | | | | \$ | \$0.00 | | |
| SUBTOTAL = | | | | | | OTAL = | \$ | \$1,030.00 | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). | | | | | | \$ | \$0.00 | | |
| TOTAL NATIONAL FEE = | | | | | | | \$ | \$1,030.00 | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property + TOTAL FEES ENCLOSED = | | | | | | \$ | \$0.00 | | |
| | | | | | | \$ | \$1,030.00 | | |
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| a. | × | A check in the amount of \$ | \$1,030.00 | to cover the | above regula spiclosed PCT/TK | 07 FEB 2006 | | | | | |
|----|--|---|------------|------------------------|-------------------------------|--------------------------|--|--|--|--|--|
| b. | | Please charge my Deposit Ac A duplicate copy of this sheet | | | in the amount of \$ | to cover the above fees. | | | | | |
| c. | X | The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No13-2490 A duplicate copy of this sheet is enclosed. | | | | | | | | | |
| d. | | Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. | | | | | | | | | |
| | NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. | | | | | | | | | | |
| SE | ND / | ALL CORRESPONDENCE TO: | : | | Chert ILi | 一四 | | | | | |
| M | cDon | inell Boehnen Hulbert & Ber | ghoff LLP | | SIGNATURE | SIGNATURE | | | | | |
| | | uth Wacker Drive | | | Robert J. Irvine III | | | | | | |
| | | o, IL 60606 States of America | | NAME | | | | | | | |
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